NC/QC/YD/2020-21/P7-1-C1

Date: 03-06-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**156 min**	Shall not be less than 30 min
2	Final setting time	**265min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.13%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.06 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.64 N/Sq mm**	Shall not be less than 27 N/Sqmm

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Asst. Executive Engineer
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(BBMP Ynk. Zn)
Yelahanka, Bengalore

NEWZEN CONSULTANTS * BANGALORE *

NC/QC/YD/2020-21/P7-1-C2

Date: 05-06-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	165min	Shall not be less than 30 min
2	Final setting time	270 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.13%	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.06 mm	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	28.56 N/Sq mm	Shall not be less than 27 N/Sqmm

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Yelahanka, Bangalore

NEWZEN CONSULTANT BANGALORE

NC/QC/YD/2020-21/P7-1-C3 Date: 08-06-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**158 min**	Shall not be less than 30 min
2	Final setting time	**285 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.13%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.06 mm**	Shall not be more than 10 mm
5	Compressive strength c) 3 days (average of three results)	**28.96 N/Sq mm**	Shall not be less than 27 N/Sqmm

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Yelahanka, Bangalore

NEWZEN CONSULTANT BANGALORE

NC/QC/YD/2020-21/P7-1-C5 Date: 12-06-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**162 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.16%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.04 mm**	Shall not be more than 10 mm
5	Compressive strength e) 3 days (average of three results)	**28.36 N/Sq mm**	Shall not be less than 27 N/Sqmm

Asst. Executive Engineer
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Yelahanka, Bangalore

NEWZEN CONSULTANT * BANGALORE

NC/QC/YD/2020-21/P7-1-PCC7 **Date: 15-06-2020**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	64.15	0 -20	30- 70
10mm	28.60	0 -5	10- 35
4.75mm	3.90	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	94.35	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	86.70	60-95	75-100	85-100	
01.18	72.15	30-70	55-90	75-100	
600.mic	46.85	15-34	35-59	60-79	
300.mic	23.10	5-20	8-30	12-40	
150.mic	7.45	0-10	0-10	0-10	

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

NEWZEN CONSULTANT * BANGALORE *

NC/QC/YD/2020-21/P7-1-CB1 Date: 25-06-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-06-20	25-06-20	07	22500	370	16.44	16.67
	002	"	"	"	"	380	16.89	
	003	"	"	"	"	375	16.67	

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Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Ye... Bangalore

NEWZEN * BANGALORE * CONSULTANT *

NC/QC/YD/2020-21/P7-1-CB10 Date: 03-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-06-20	03-07-20	07	22500	370	16.44	16.22
	002	"	"	"	"	365	16.22	
	003	"	"	"	"	360	16.00	

Asst. Executive Engineer
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Yelahanka, Bangalore

NEWZEN CONSULTANT * BANGALORE *

NC/QC/YD/2020-21/P7-1-CB11 **Date: 03-07-2020**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-06-20	03-07-20	07	22500	360	16.00	16.07
	002	"	"	"	"	355	15.78	
	003	"	"	"	"	370	16.44	

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Yelahanka, Bangalore

NEWZEN CONSULTANT * BANGALORE *

NC/QC/YD/2020-21/P7-1-CB15 Date: 06-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	29-06-20	06-07-20	07	22500	375	16.67	16.74
	002	"	"	"	"	385	17.11	
	003	"	"	"	"	370	16.44	

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Yelahanka, Bangalore

NEWZEN CONSULTANT * BANGALORE *

NC/QC/YD/2020-21/P7-1-CB26 Date: 10-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	03-07-20	10-07-20	07	22500	385	17.11	16.59
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	365	16.22	

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Yelahanka, Bangalore

NEWZEN CONSULTANT * BANGALORE *

Page No. 1/1,

NC/QC/YD/2020-21/P7-1-CB32 Date: 14-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	07-07-20	14-07-20	07	22500	375	16.67	16.74
	002	"	"	"	"	385	17.11	
	003	"	"	"	"	370	16.44	

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

NEWZEN CONSULTANT BANGALORE

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187

NC/QC/YD/2020-21/P7-1-CB2A

Date: 17-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-06-20	17-07-20	28	22500	515	22.89	**22.81**
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	525	23.33	

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Asst. Executive Engineer
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(BBMP Ynk. Zn)
Yelahanka, Bangalore

NEWZEN CONSULTANT * BANGALORE *

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187

NC/QC/YD/2020-21/P7-1-CB5A

Date: 21-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	23-06-20	21-07-20	28	22500	530	23.56	**23.70**
	002	"	"	"	"	525	23.33	
	003	"	"	"	"	545	24.22	

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Asst. Executive Engineer
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Yelahanka, Bangalore

NEWZEN CONSULTANT * BANGALORE *

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NC/QC/YD/2020-21/P7-1-CB6A

Date: 22-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	24-06-20	22-07-20	28	22500	530	23.56	**23.33**
	002	"	"	"	"	530	23.56	
	003	"	"	"	"	515	22.89	

AE

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Yok. Zn)
Bangalore

NEWZEN CONSULTANT * BANGALORE *

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187

NC/QC/YD/2020-21/P7-1-CB8A

Date: 23-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	25-06-20	23-07-20	28	22500	510	22.67	22.37
	002	"	"	"	"	495	22.00	
	003	"	"	"	"	505	22.44	

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

NEWZEN CONSULTANT * BANGALORE *

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187

NC/QC/YD/2020-21/P7-1-CB10A

Date: 24-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-06-20	24-07-20	28	22500	520	23.11	22.74
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	505	22.44	

AE

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

NEWZEN CONSULTANT * BANGALORE *

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YD/2020-21/P7-1-CB17A Date: 27-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	29-06-20	27-07-20	28	22500	520	23.11	22.74
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	505	22.44	

AE

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

NEWZEN CONSULTANT * BANGALORE *

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187

NC/QC/YD/2020-21/P7-1-CB23A Date: 30-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	02-07-20	30-07-20	28	22500	515	22.89	22.81
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	525	23.33	

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NC/QC/YD/2020-21/P7-1-CB26A Date: 31-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	03-07-20	31-07-20	28	22500	500	22.22	22.44
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	505	22.44	

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NC/QC/YD/2020-21/P7-1-GSB1 Date: 10-06-2020

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. **Gradation Test:**
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	100.00	100
53.00	97.45	80-100
26.50	81.05	55-90
9.50	54.15	35-65
4.75	41.60	25-50
2.36	17.45	10-20
0.85	8.05	2-10
0.425	3.25	0-5

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Date: 12-06-2020

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.41 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.64**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.52**	----------
5.	Aggregate Impact Value, %	**28.36**	Not more than 40.00 %

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NC/QC/YD/2020-21/P7-1-W2 Date: 19-06-2020

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	95.25	95-100
26.50	---	-
22.40	76.10	60-80
11.20	52.65	40-60
4.75	36.05	25-40
2.36	23.15	15-30
0.600	18.70	8-22
0.075	3.45	0-5

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NC/QC/YD/2020-21/P7-1-W3 Date: 20-06-2020

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	96.45	95-100
26.50	---	-
22.40	71.55	60-80
11.20	56.70	40-60
4.75	32.45	25-40
2.36	25.80	15-30
0.600	18.35	8-22
0.075	4.10	0-5

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NC/QC/YD/2020-21/P7-1-W7 Date: 26-06-2020

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	98.30	95-100
26.50	---	-
22.40	70.15	60-80
11.20	52.90	40-60
4.75	34.25	25-40
2.36	23.05	15-30
0.600	17.65	8-22
0.075	3.40	0-5

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NC/QC/YD/2020-21/P7-1-DS1 Date: 04-07-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1238	900
2	Marshall Flow at 60°C, mm.	3.26	2.0 - 4.0

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NC/QC/YD/2020-21/P7-1-DBM2 Date: 03-07-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.53 %**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	100	100
26.5	98.40	90-100
19.0	81.25	71-95
13.20	73.65	56-80
4.75	45.90	38-54
2.36	32.10	28-42
0.300	19.05	7-21
0.075	6.45	2-8

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NC/QC/YD/2020-21/P7-1-DS4 Date: 06-07-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1246	900
2	Marshall Flow at 60°C, mm.	3.38	2.0 - 4.0

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NC/QC/YD/2020-21/P7-1-DS5 Date: 07-07-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1242	900
2	Marshall Flow at 60°C, mm.	3.36	2.0 - 4.0

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NC/QC/YD/2020-21/P7-1-DS6 Date: 07-07-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1248	900
2	Marshall Flow at 60°C, mm.	3.40	2.0 - 4.0

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NC/QC/YD/2020-21/P7-1-DS8 Date: 11-07-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.

{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1246	900
2	Marshall Flow at 60°C, mm.	3.34	2.0 - 4.0

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NC/QC/YD/2020-21/P7-1-DBM12 Date: 13-07-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.54 %**

2. Gradation Test
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	100	100
26.5	95.35	90-100
19.0	83.15	71-95
13.20	71.95	56-80
4.75	47.65	38-54
2.36	31.05	28-42
0.300	18.55	7-21
0.075	7.05	2-8

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NC/QC/YD/2020-21/P7-1-DS12 Date: 14-07-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1248**	900
2	Marshall Flow at 60°C, mm.	**3.36**	2.0 - 4.0

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Yelahanka, Bangalore

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NC/QC/YD/2020-21/P7-1-DBM13 Date: 13-07-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.53%**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	100	100
26.5	97.35	90-100
19.0	84.10	71-95
13.20	71.65	56-80
4.75	46.80	38-54
2.36	32.55	28-42
0.300	17.95	7-21
0.075	6.45	2-8

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NC/QC/YD/2020-21/P7-1-BB1 Date: 08-07-2020

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.
Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25^0 C	**51.90^0 C**	Min. 45
2.	Ductility Value at 25^0 C	**108.0 cm**	40
3.	Flash point	**238^0 C**	Minimum 220^0 C
4.	Softening point	**50.60^0 C**	Min. 47

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NC/QC/YD/2020-21/P7-1-BC3 Date: 13-07-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.44 %**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	100	100
13.2	96.40	90-100
9.5	82.15	70-88
4.75	64.90	53-71
2.36	51.35	42-58
1.18	43.65	34-48
0.600	32.90	26-38
0.300	24.10	18-28
0.150	16.85	12-20
0.075	7.05	4-10

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NC/QC/YD/2020-21/P7-1-BC4 Date: 14-07-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.42 %**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	100	100
13.2	96.25	90-100
9.5	83.45	70-88
4.75	63.90	53-71
2.36	52.05	42-58
1.18	41.85	34-48
0.600	30.55	26-38
0.300	24.65	18-28
0.150	17.40	12-20
0.075	8.05	4-10

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NC/QC/YD/2020-21/P7-1-BC5 Date: 15-07-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.41 %**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	100	100
13.2	94.35	90-100
9.5	82.05	70-88
4.75	66.70	53-71
2.36	50.15	42-58
1.18	43.90	34-48
0.600	30.10	26-38
0.300	24.55	18-28
0.150	17.25	12-20
0.075	6.95	4-10

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NC/QC/YD/2020-21/P7-1-BS5 Date: 16-07-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1368**	900
2	Marshall Flow at 60°C, mm.	**3.54**	2.0 - 4.0

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NC/QC/YD/2020-21/P7-1-BS7 Date: 17-07-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1346**	900
2	Marshall Flow at 60°C, mm.	**3.34**	2.0 - 4.0

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NC/QC/YD/2020-21/P7-1-BS9 Date: 18-07-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1366	900
2	Marshall Flow at 60°C, mm.	3.50	2.0 - 4.0

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NC/QC/YD/2020-21/P7-1-BC11 Date: 20-07-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.44 %**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	100	100
13.2	98.35	90-100
9.5	81.55	70-88
4.75	63.90	53-71
2.36	51.05	42-58
1.18	40.60	34-48
0.600	32.25	26-38
0.300	24.85	18-28
0.150	17.55	12-20
0.075	8.25	4-10

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NC/QC/YD/2020-21/P7-1-BS12 Date: 22-07-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1364	900
2	Marshall Flow at 60°C, mm.	3.52	2.0 - 4.0

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NC/QC/YD/2020-21/P7-1-BS13 Date: 22-07-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1360	900
2	Marshall Flow at 60°C, mm.	3.54	2.0 - 4.0

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NC/QC/YD/2020-21/P7-1-BC14 Date: 22-07-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.43 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	100	100
13.2	95.45	90-100
9.5	83.05	70-88
4.75	67.90	53-71
2.36	52.15	42-58
1.18	40.25	34-48
0.600	34.85	26-38
0.300	22.65	18-28
0.150	18.10	12-20
0.075	7.80	4-10

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NC/QC/YD/2020-21/P7-1-D2

Date: 06-07-2020

TEST REPORT ON DRY LEAN CONCRETE
(GRADATION TEST)

Sub: To conduct Gradation test on Dry Lean Concrete (DLC) Mix.
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
26.50	100	100
19.00	89.40	75-95
9.50	61.05	50-70
4.75	49.75	30-55
2.36	36.85	17-42
0.600	18.20	8-22
0.300	13.90	7-17
0.150	8.05	2-12
0.075	5.25	0-10

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NC/QC/YD/2020-21/P7-1-CR3

Date: 20-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-07-20	20-07-20	07	22500	530	23.56	**23.33**
	002	"	"	"	"	530	23.56	
	003	"	"	"	"	515	22.89	

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NC/QC/YD/2020-21/P7-1-CR1A

Date: 07-08-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	10-07-20	07-08-20	28	22500	730	32.44	32.59
	002	"	"	"	"	745	33.11	
	003	"	"	"	"	725	32.22	

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NC/QC/YD/2020-21/P7-1-CR3A

Date: 10-08-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-07-20	10-08-20	28	22500	720	32.00	32.52
	002	"	"	"	"	735	32.67	
	003	"	"	"	"	740	32.89	

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NC/QC/YD/2020-21/P7-1-CR5A

Date: 13-08-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-07-20	13-08-20	28	22500	730	32.44	**32.15**
	002	"	"	"	"	725	32.22	
	003	"	"	"	"	715	31.78	

Asst. Executive Engineer
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NC/QC/YD/2020-21/P7-1-CR6A Date: 13-08-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SMLP Asphalts, Prop : B B Umesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-07-20	13-08-20	28	22500	750	33.33	33.26
	002	"	"	"	"	755	33.56	
	003	"	"	"	"	740	32.89	

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